## AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) A process for producing a homogeneous type solid catalyst component for a transition metal complex or a homogeneous type solid catalyst containing a transition metal complex comprising a step for removing a fine-powdery component and/or a shapeless component utilizing a difference between their sedimentation velocities in a solvent.
- 2. (Currently Amended) A process for producing a homogeneous type solid catalyst component for a transition metal complex or a homogeneous type solid catalyst containing a transition metal complex comprising, in a washing step in the production of a homogeneous type solid catalyst component for a transition metal complex or a homogeneous type solid catalyst containing a transition metal complex, a step for removing a fine-powdery component and/or a shapeless component by removing a slurry-form portion before the completion of sedimentation of a fine-powdery component and/or a shapeless component.
- 3. (Currently Amended) The process according to claim 1, wherein the homogeneous type solid catalyst component for a transition metal complex or the homogeneous type solid catalyst containing a transition metal complex is a modified particle

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obtained by contacting the following (a), the following (b), the following (c) and a particle (d):

(a): a compound represented by the following general formula
[1]:

$$M^1L^1_m$$
 [1]

(b): a compound represented by the following general formula
[2]:

$$R^1_{t-1}TH$$
 [2]

(c): a compound represented by the following general formula
[3]:

$$R^{2}_{t-2}TH_{2}$$
 [3]

wherein in the above formulae [1] to [3], M¹ represents a metal atom in the groups I, II, XII, XIV or XV in The Periodic Table, and m represents a valence of M¹; L¹ represents a hydrogen atom, a halogen atom or a hydrocarbon group, and in the case where plural L¹s exist, they may be the same or different; R¹ represents an electron attractive group or a group containing an electron attractive group, and in the case where plural R¹s exist, they may be the same or different; R² represents a hydrocarbon group or a halogenated hydrocarbon group; T represents, independent of each other, an atom in the groups XV or XVI in The Periodic Table, and t represents a valence of T.

- 4. (Currently Amended) The process according to claim 2, wherein the homogeneous type solid catalyst component for a transition metal complex or the homogeneous type solid catalyst containing a transition metal complex is a modified particle obtained by contacting the following (a), the following (b), the following (c) and a particle (d):
- (a): a compound represented by the following general formula[1]:

 $M^{1}L_{m}^{1}$  [1]

(b): a compound represented by the following general formula
[2]:

 $R^1_{t-1}TH$  [2]

(c): a compound represented by the following general formula
[3]:

 $R^2_{t-2}TH_2$  [3]

wherein in the above formulae [1] to [3],  $M^1$  represents a metal atom in the groups I, II, XII, XIV or XV in The Periodic Table, and m represents a valence of  $M^1$ ;  $L^1$  represents a hydrogen atom, a halogen atom or a hydrocarbon group, and in the case where plural  $L^1$ s exist, they may be the same or different;  $R^1$  represents an electron attractive group or a group containing an electron attractive group, and in the case where plural  $R^1$ s exist, they may be the same or different;  $R^2$  represents a hydrocarbon group or a

halogenated hydrocarbon group; T represents, independent of each other, an atom in the groups XV or XVI in The Periodic Table, and t represents a valence of T.

- 5. (Currently Amended) The process according to claim 1, wherein the homogeneous type solid catalyst component for a transition metal complex or the homogeneous type solid catalyst containing a transition metal complex is a modified particle obtained by contacting an aluminoxane (f) and a particle (d).
- 6. (Currently Amended) The process according to claim 2, wherein the homogeneous type solid catalyst component for a transition metal complex or the homogeneous type solid catalyst containing a transition metal complex is a modified particle obtained by contacting an aluminoxane (f) and a particle (d).
- 7. (Currently Amended) The process according to claim 1, wherein the homogeneous type solid catalyst component for a transition metal complex or the homogeneous type solid catalyst containing a transition metal complex is a modified particle obtainable obtained by contacting an aluminoxane (f) a particle (d) and a transition metal component (g).

- 8. (Currently Amended) The process according to claim 2, wherein the homogeneous type solid catalyst component for a transition metal complex or the homogeneous type solid catalyst containing a transition metal complex is a modified particle obtained by contacting an aluminoxane (f) a particle (d) and a transition metal component (g).
- 9. (Currently Amended) A homogeneous type solid catalyst component for a transition metal complex or a homogeneous type solid catalyst containing a transition metal complex obtained by the process according to claim 1.
- 10. (Currently Amended) A homogeneous type solid catalyst component for a transition metal complex or a homogeneous type solid catalyst containing a transition metal complex obtained by the process according to claim 2.
- 11. (Currently Amended) A process for producing an addition polymer which comprises polymerizing an addition polymerizable monomer using the homogeneous type solid catalyst component for a transition metal complex or the homogeneous type solid catalyst containing a transition metal complex according to claim 9.

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12. (Currently Amended) A process for producing an addition polymer which comprises polymerizing an addition polymerizable monomer using the homogeneous type solid catalyst component for a transition metal complex or the homogeneous type solid catalyst containing a transition metal complex according to claim 10.